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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT

EASTERN KAZAKH SSR, 13 DECEMBER 1975

TELEDYNE GEOTECH

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT**  
**Eastern Kazakh SSR, 13 December 1975**

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**Alexandria Laboratories**

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**March 1976**

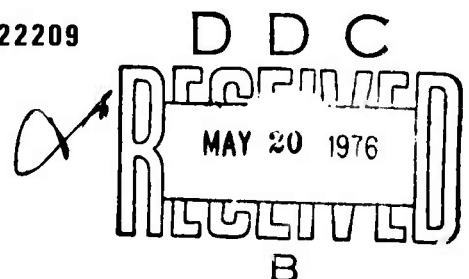
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## SDCS EVENT REPORT NO. 76

Eastern Kazakh SSR, 13 December 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	$m_b$	$M_s$
NORSAR	05:04:18.6	04:56:44	49 N	080 E	4.9	N/A
Hagfors	05:04:08.8	04:57:17	51 N	075 E	5.4	N/A

Using SDCS stations and NORSAR, the epicenter location and magnitudes become

04:57:00.2	49.9N	078.0E	4.8	N/A
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All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations and NORSAR. Horizontal SP channels at all SDCS stations were rotated. NORSAR "P" arrival was obtained from their bulletin; the TAL transmission was not recoverable.

The SDCS stations did not record long-period signals for this event and were not included in this report. ALPA and NORSAR long-period data were not recoverable. LASA long-period data were not included because of complicated recovery procedures.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response).

## STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	MN SECS		SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14	00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35	41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32	58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41	19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09	43.0 N 067 59 09.0 W	213	KS56000	KS56000
NORSAR	Kjeller, Norway	60 49	25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50	20.0 N 093 40 20.0 W	566	18300	SL210 V SL220 H
WH2YA	White Horse, Yukon	60 41	41.0 N 134 58 02.0 W	855	18300	SL210 V SL220 H

Note: The orientation of the radial instruments at FN-WV is assumed to be  $316^\circ \pm 5^\circ$  based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

Note: KS56000 seismometer installed 18:55:00Z 11 December 1975 at HN-ME.

## HYPOCENTER DETERMINATION

INPUT FOR EVENT 13 DEC 75  
 04:57:00.0 49.000N 79.000E 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST		
NAC	05 04 18.6	-0.1	-0.2	38.0	312.8
WH2YK	05 07 50.8	0.3	0.1	66.6	17.0
FK-CN	05 09 06.3	-0.7	-0.5	79.4	354.7
HN-ME	05 09 10.6	0.9	1.1	79.9	336.8
PN-WV	05 09 59.3	0.2	0.1	89.7	342.6
CFSC	05 10 16.9	-0.4	-0.6	93.6	346.7

## 67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
NC CONVERGENCE CN CAIC RUN						
04:56:12.2	48.574N	78.532E-256.	CALC	0.6	16	6
04:57:00.2	49.923N	78.036E	0. REST	0.6	3	6

CAIC				REST			
4	.	1		4	.	1	
1	.	0		1	.	0	
0	0.	0	0	0	0.	0	0
.	.	.	.	.	.	.	.
0	0.	0	0	0	0.	0	0
0	.	0		0	.	0	
0	.	0		0	.	0	

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 0.93  
 MAJCF 167.8KM. MINCR 42.9KM. AZ= 179 AREA= 22622 SQ.KM. REST



4&lt;

## DATA SUMMARY

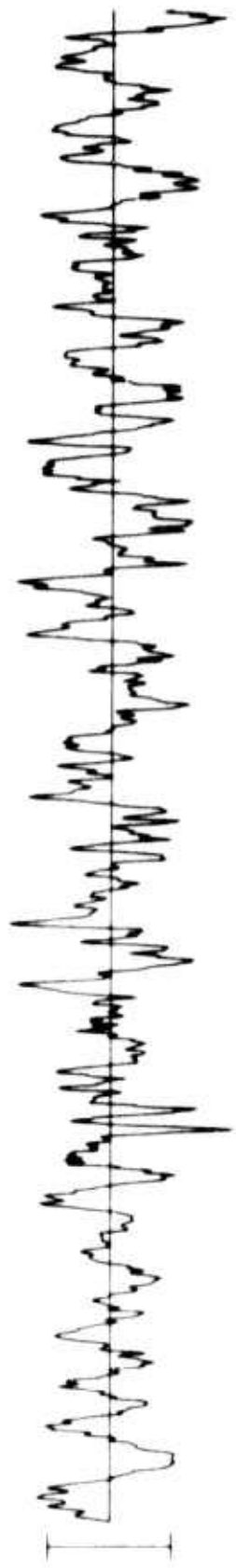
INPUT POF EVENT 13 DEC 75  
 04:57:00.0 49.000N 79.000E 0NM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIP	DIST
		TIME					MB	MS		
NAC	EP	05 04 18.6		AB	0.5	20.	4.50			38.0
WH2YK	EP	05 07 50.8		SFZ	0.8	33.	5.22			66.6
RR-CN	EP	05 09 06.3		SFZ	0.5	24.	4.84			79.4
HN-ME	EP	05 09 10.6		SFZ	0.9	14.	4.56			79.9
FN-WV	EP	05 09 59.3		SFZ	0.8	11.	4.74			89.7
CFSC	EP	05 10 16.9		SPZ	0.9	22.	5.18			93.6

CEIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA
04:57:00.2	49.923N	78.036E	0. REST	4.84	0.30	6

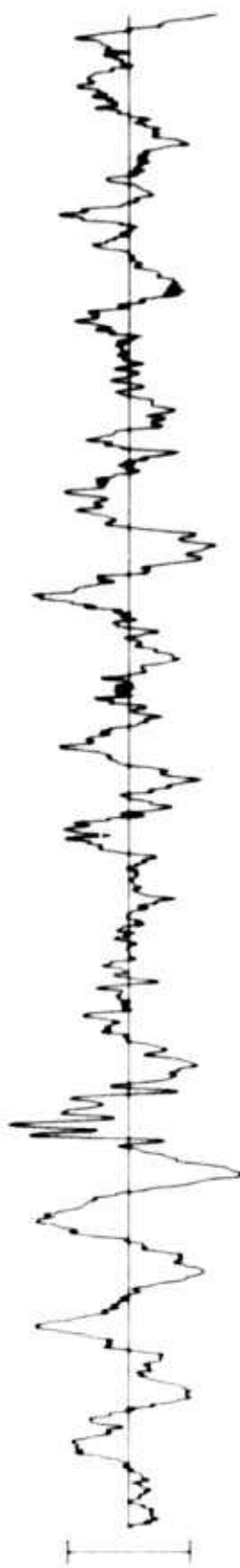
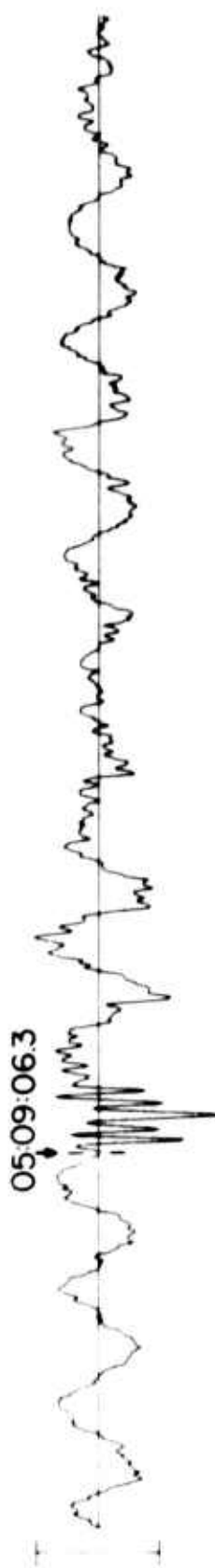
WH2YK 13 DEC 75 5<

05:07:50.8



RR-JN 13 DEC 75

6<



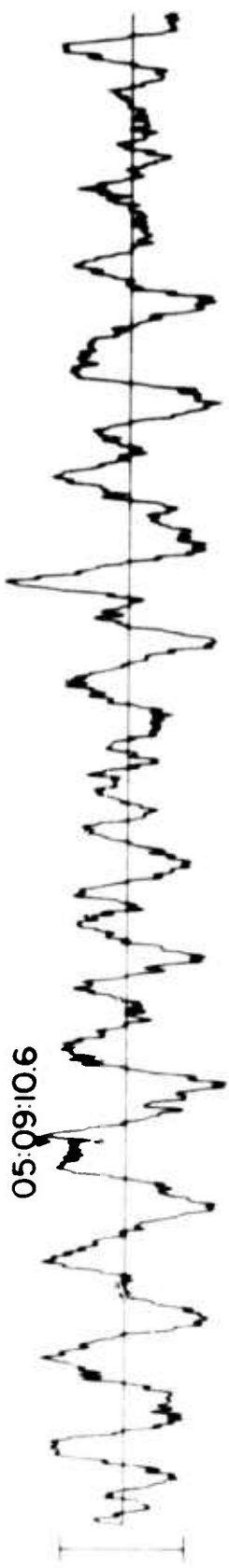
05:09:30

28

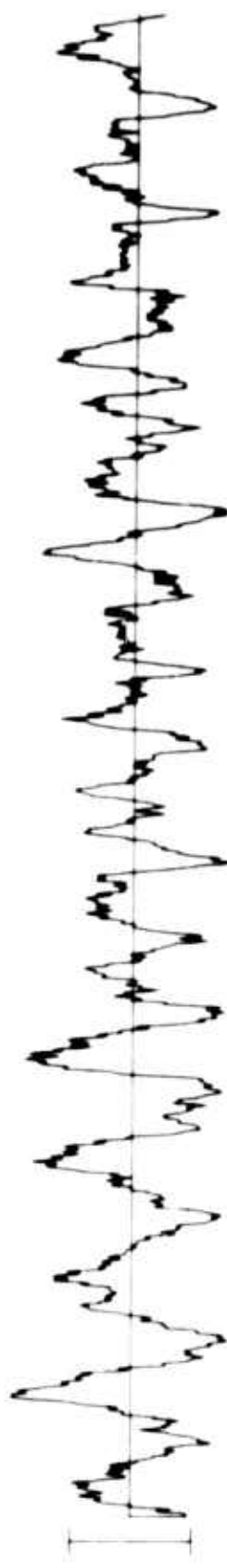
WIN-ME 13 DEC 75

05:09:10.6

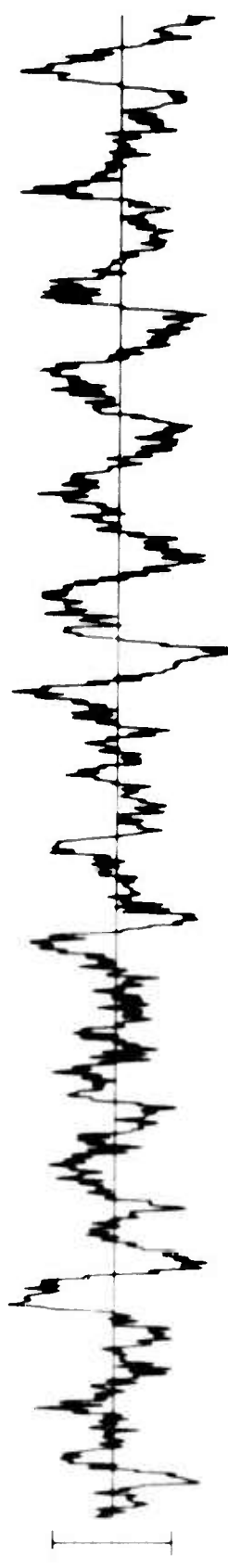
SPZ  
25.67 MU



SPR  
22.20 MU



SPT  
21.89 MU



TIME

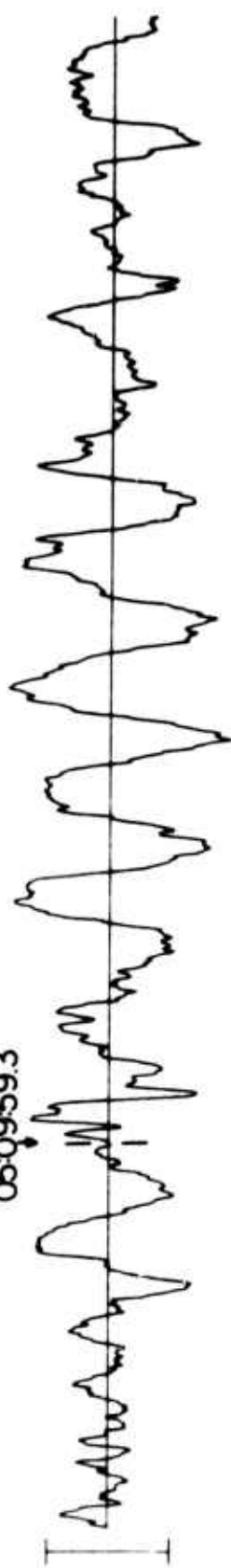


05:09:30

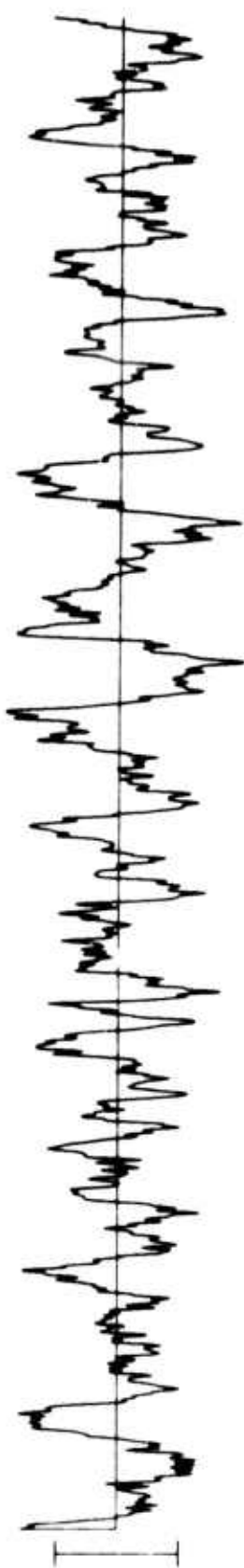
FN-WV 13 DEC 75 8-

05:09:59.3

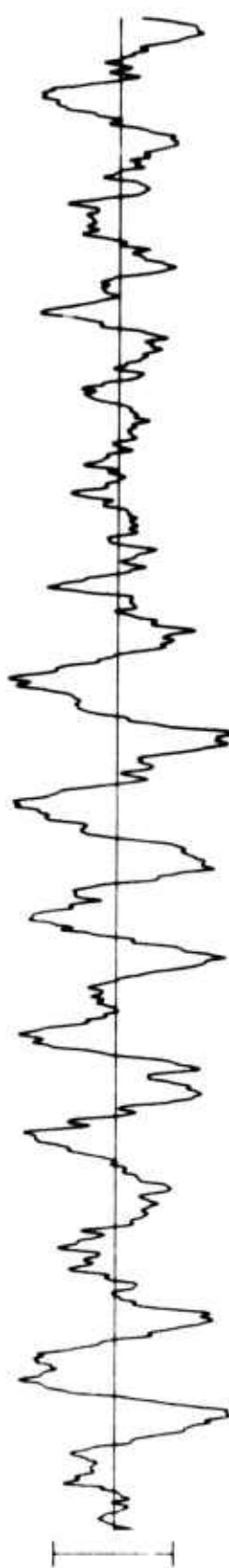
SPZ  
12.06 MU



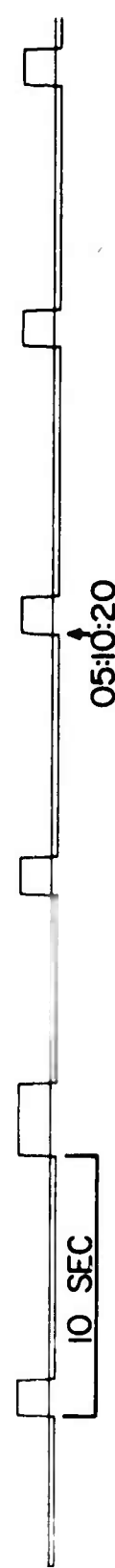
SPR  
8.63 MU



SPT  
10.87 MU



TIME

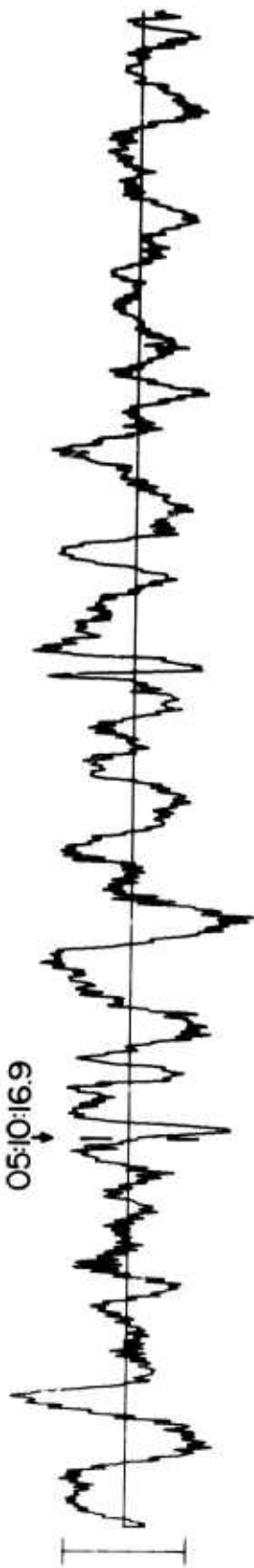


CPS0 13 DEC 75

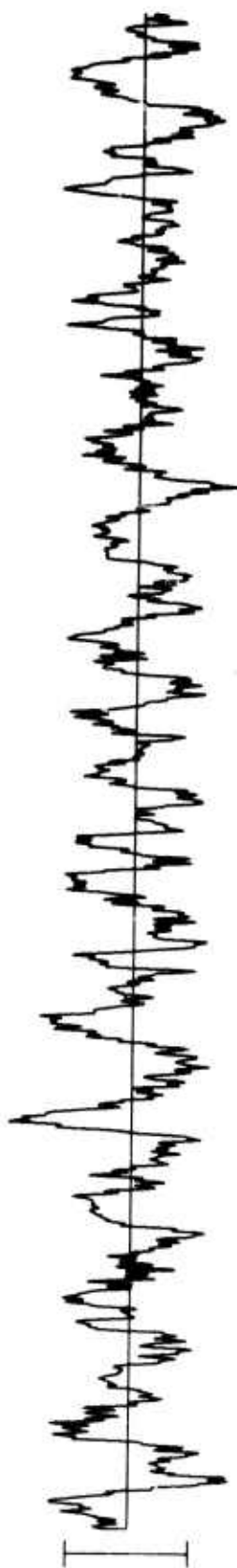
9<

SPZ  
18.06 MU

05:10:16.9



SPR  
11.36 MU



SPT  
11.44 MU



TIME

